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(FILE 'HOME' ENTERED AT 15:38:25 ON 03 NOV 1999)
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	FILE	'REGIS	TRY'	ENTERED	ΑT	15:38:28	ON	03	NOV	1999	•
L1			STR								
L2		50	S L1								
	FILE	'CASRE	EACT'	ENTERED	ΑT	15:40:01	ON	03	NOV	1999	
L3		38	S L1								
L4	STR L1										
L5		1	S L4								
L6	STR L4										
L7	2 S L6										
		-	-								
L8		1851	S RE	SIN							
L9	255 S SOLID SUPPORT										
L10	847 S SOLID(2A) PHASE(2A) SYNTHES?										
L11		2304	S L8	-L10							
L12		0	S L6	SSS SAM	SU	B=L11					
L13		•	STR								
L14		6	S L1								
		_									
L15		150	S Ll	3 FUL							
L16		2	S L1	5 AND L1:	1						

I searched Castlant
and combined the answer set with
and combined the answer , ite.

Nesin, polid support, ite.

=> d que 115

L13 STR BRT PRO RRT 5 G2 NH2 6 G1 ** NH = C 3 2

VAR G1=NH/O VAR G2=O/S/N NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE

150 SEA FILE=CASREACT SSS FUL L13 (558 REACTIONS)

=> d fhit bib abs

L16 ANSWER 1 OF 2 CASREACT COPYRIGHT 1999 ACS

RX(7) OF 8 2 X ===> AD

resin-bound

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

ΑD

RX(7) RCT X 197304-25-9D

STAGE (1)

Y 110-89-4 Piperidine RGT

SOL 68-12-2 DMF

```
STAGE(2)
                  RGT AE 108-30-5 Succinic anhydride
                  SOL 68-12-2 DMF
              STAGE (3)
                  RGT AF 100-46-9 PhCH2NH2, AG 4584-49-0 1-Propanamine,
                        2-chloro-N, N-dimethyl-, hydrochloride
                  SOL 75-09-2 CH2C12
              STAGE (4)
                  RGT AA 76-05-1 F3CCO2H, AB 7732-18-5 Water
                  SOL 75-09-2 CH2C12
              STAGE (5)
                  RGT AB 7732-18-5 Water, AA 76-05-1 F3CCO2H
                  SOL 75-09-2 CH2C12
                 AD 56439-40-8
            PRO
                 CASREACT
AN
      129:4503
      Solid-phase synthesis of hydroxylamine
ΤI
      compounds, derivatives, and combinatorial libraries thereof
IN
      Patel, Dinesh; Nhu, Khehyong
      Versicor, Inc., USA; Patel, Dinesh; Nhu, Khehyong
PΆ
SO
      PCT Int. Appl., 98 pp.
      CODEN: PIXXD2
DT
      Patent
LA
      English
FAN.CNT 1
                          KIND
                                  DATE
                                                    APPLICATION NO.
      PATENT NO.
                           ____
                                  -----
                                                    -----
                                  19980507
                                                   WO 1997-US19481 19971027
      WO 9818754
                     A1
PΙ
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
                                                   AU 1998-54263
                                                                         19971027
      AU 9854263
                           A1
                                  19980522
PRAI US 1996-29788
                           19961028
      US 1997-47468
                           19970523
      WO 1997-US19481
                          19971027
OS
      MARPAT 129:4503
      A library comprising a plurality of hydroxylamine and/or hydroxylamine
AB
      derivs. wherein the library is prepd. by prepg. a solid
      support-bound alkoxyamine, derivatizing the supported alkoxyamine,
      cleaving the derivatized alkoxyamine from the support, and removing the
      alkoxy protecting group, is claimed. Thus, 4-hydroxymethylphenoxy
      resin was brominated with PPh3.Br2 in CH2Cl2 to give 99%
      bromomethylphenoxy resin. This was treated with PhCH2ONH2 and
      K2CO3 in EtOAc/H2O to give benzyloxyamine resin, which was
      treated with PhCH2CH2COC1 and 2,6-di-tert-butyl-4-methylpyridine in DMF
to
      give N-acylated material. The latter was treated with CF3CO2H to afford
      PhCH2CH2CONHOCH2Ph, which was hydrogenated in MeOH over Pd/C to afford
      PhCH2CH2CONHOH.
                        Searched by John Dantzman
                                                             308-4488
```

=> d fhit bib abs 2

L16 ANSWER 2 OF 2 CASREACT COPYRIGHT 1999 ACS

RX(7) OF 11 $\mathbf{x} + \mathbf{y} ===> \mathbf{z}$

X polymer bound

H N Ph

Y

$$\begin{array}{c}
(7) \\
\text{HO} \\
\end{array}$$

$$\begin{array}{c}
\text{H} \\
\text{N} \\
\text{O}
\end{array}$$

$$\begin{array}{c}
\text{N} \\
\text{H}
\end{array}$$

$$\begin{array}{c}
\text{Ph} \\
\text{H}
\end{array}$$

Z YIELD 81%

RX(7) RCT X 197304-27-1D

STAGE(1)

SOL 68-12-2 DMF, 108-30-5 Succinic anhydride

STAGE(2)

RCT Y 100-46-9

RGT AA 530-62-1 Diimidazolyl ketone

SOL 75-09-2 CH2Cl2 .

STAGE (3)

RGT R 76-05-1 F3CCO2H

SOL 7732-18-5 Water, 75-09-2 CH2Cl2

PRO Z 56439-40-8

AN 127:318531 CASREACT

TI A New and Efficient Solid Phase Synthesis of Hydroxamic Acids

AU Ngu, Khehyong; Patel, Dinesh V.

CS Versicor Inc., Fremont, CA, 94555, USA

SO J. Org. Chem. (1997), 62(21), 7088-7089

CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal LA English

AB A new method for the **solid phase synthesis**(SPS) of hydroxamic acids proceeding through the intermediacy of
N-tethered-O-protected alkoxyamine **resin** is described. The
linker group, besides being an acid cleavable site for attachment of
these

mols. on **solid support**, also serves as a suitable nitrogen protecting group for the hydroxamate functionality. The current methodol. is strategically well suited for combinatorial synthesis of diverse hydroxamic acid based metalloenzyme inhibitors, as exemplified by the first SPS of CGS 27023A, a recently described orally active matrix metallo protease (MMP) inhibitor.

=> d his

(FILE 'HOME' ENTERED AT 14:49:00 ON 03 NOV 1999)

FILE 'HCAPLUS' ENTERED AT 14:49:19 ON 03 NOV 1999

L1	6	S	SIEV D?/AU
L2	396	S	SEMPLE ?/AU
L3	9	S	WEINHOUSE M?/AU
L4			L1 AND L2 AND L3
L5	408	S	L1-L4
L6	5	S	L5 AND RESIN

Inventor Search

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=> d 1-5
```

- L6 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 1999 ACS 1999:617615 HCAPLUS ΑN ΤI Novel protocol for the solid-phase synthesis of peptidyl and peptidomimetic P-argininal derivatives. ΑÜ Semple, J. Edward; Gaudette, John A.; Siev, Daniel V. CS Department of Medicinal Chemistry, Corvas International, Inc., San Diego, CA, 92121, USA Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26 SO (1999), MEDI-241 Publisher: American Chemical Society, Washington, D. C. CODEN: 67ZJA5 DT Conference; Meeting Abstract LA English ANSWER 2 OF 5 HCAPLUS COPYRIGHT 1999 ACS L6 ΑN 1999:440760 HCAPLUS 131:199967 DN Novel protocol for the solid-phase synthesis of peptidyl and ΤI peptidomimetic P1-argininal derivatives ΑU Siev, Daniel V.; Gaudette, John A.; Semple, J. Edward Department of Medicinal Chemistry, Corvas International, Inc., San Diego, CS CA, 92121, USA SO Tetrahedron Lett. (1999), 40(28), 5123-5127 CODEN: TELEAY; ISSN: 0040-4039 PBElsevier Science Ltd. DT Journal LA English CASREACT 131:199967 OS ANSWER 3 OF 5 HCAPLUS COPYRIGHT 1999 ACS L6 1996:97083 HCAPLUS ΑN 124:260932 DNTIImidazole libraries on solid support Sarshar, Sepehr; Siev, Daniel; Mjalli, Adnan M. M. ΑU Ontogen Corp., Karlovy vary, CA, 92009, USA CS Tetrahedron Lett. (1996), 37(6), 835-8 SO CODEN: TELEAY; ISSN: 0040-4039 DTJournal LA English ANSWER 4 OF 5 HCAPLUS COPYRIGHT 1999 ACS L6 ΑN 1996:10631 HCAPLUS DN 124:175550 Synthesis of NH-acyl-.alpha.-amino amides on Rink resin: ΤI inhibitors of the hematopoietic protein tyrosine phosphatase (HePTP) Cao, Xiaodong; Moran, Edmund J.; Siev, Daniel; Lio, Anna; ΑU Ohashi, Cara; Majalli, Adnan M. M. CS Ontogen Corp., Karlovy vary, CA, 92009, USA 08501.B57 Bioorg. Med. Chem. Lett. (1995), 5(24), 2953-8 CODEN: BMCLE8; ISSN: 0960-894X DTJournal English LA
- L6 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 1999 ACS
 Searched by John Dantzman 308-4488

- AN 1987:167153 HCAPLUS
- DN 106:167153
- ΤI Wave absorption in piezoceramic-polymer composites
- ΑU
- CS
- Semple, A. E.; Pilgrim, S. M.; Thompson, W., Jr.; Newnham, R. E. Pennsylvania State Univ., University Park, PA, 16802, USA Mater. Sci. Res. (1986), 20 (Tailoring Multiphase Compos. Ceram.), 455-63 SO CODEN: MTSRAY; ISSN: 0076-5201
- DT Journal
- LA English

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=> d bib abs hitstr 37
```

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ANSWER 37 OF 52 HCAPLUS COPYRIGHT 1999 ACS
L2-3
ΑN
     1987:423709 HCAPLUS
DN
     107:23709
ΤI
     Calcitonin related peptide derivatives
     Noda, Toshiharu; Fujii, Nobutaka; Morita, Kaoru; Hori, Masayuki
IN
PΑ
     Toyo Jozo Co., Ltd., Japan
SO
     Eur. Pat. Appl., 26 pp.
     CODEN: EPXXDW
DT
     Patent
LA
    English
FAN.CNT 1
     PATENT NO.
                      KIND
                            DATE
                                           APPLICATION NO.
                                                             DATE
                      ____
PΙ
     EP 212432
                       A2
                            19870304
                                           EP 1986-110829
                                                             19860805
     EP 212432
                      A3
                            19890125
     EP 212432
                      В1
                            19920506
        R: DE, FR, GB, IT
                                           JP 1986-173395
     JP 62129297
                      A2
                            19870611
                                                             19860723
     US 4743677
                       Α
                            19880510
                                           US 1986-893267
                                                             19860805
     ES 2000602
                      Α6
                            19880301
                                           ES 1986-959
                                                             19860808
PRAI JP 1985-175340
                      19850809
GΙ
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CH2-CH2-Y-Y-CH2

CO-A-Thr-Ala-Thr-NHCH
CO-Val-Thr-His-Arg-LeuAla-Gly-Leu-Leu-Ser-ArgSer-Gly-Gly-B-Val-LysC-Asn-Phe-Val-Pro-ThrAsn-Val-Gly-Ser-Lys-AlaPhe-NH2

Ve !

AB The title compds. (I; Y = S, CH2; A = Asp, Asn; B = Val, Met; C = Asn, Ser) or their salts, useful as medicines or clin. diagnostic aids for bone metab. and the central nervous system (no data), are prepd. I (Y = CH2,

Ι

A = Asp, B = Val, C = Asn) was prepd. by solid-phase synthesis on a p-methylbenzhydrylamine **resin** via the cyclic peptide II (Bzl = benzyl).

IT 98748-34-6P 98748-38-0P 98748-40-4P 98748-41-5P 98748-42-6P 98748-43-7P Searched by John Dantzman

308-4488

L23 ANSWER 33 OF 52 HCAPLUS COPYRIGHT 1999 ACS AN 1994:135141 HCAPLUS

DN 120:135141

TI Preparation of semicarbazone and semicarbazide amino acid aldehyde supports for automated synthesis of peptide analogs

IN Webb, Thomas Roy

PA Corvas International Inc., USA

SO PCT Int. Appl., 65 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE 19930624 PΙ WO 9312076 A1 WO 1991-US9388 19911213 W: AU, CA, FI, JP, KR, NO RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE AU 9213390 A1 19930719 AU 1992-13390 19911213 PRAI WO 1991-US9388 19911213 MARPAT 120:135141

GΙ

AB HO2CACH2NHCONHZ [A = C2-15 hydrocarbylene; Z = NHR, N:CHCHR1NHR, Q1; R = protecting group; R1 = H, (substituted) alkyl, cycloalkyl, aryl, aralkyl; X = (substituted) C3-12 alkylene], were prepd. Thus, trans-4-aminomethylcyclohexanecarboxylic acid was elaborated to semicarbazone deriv I in several steps. This was coupled to methylbenzhydrylamine resin using N-methylmorpholine/BOP reagent in DMF and the resulting SAAA (semicarbazone amino acid aldehyde) support was used to prep. BOC-D-Leu-Pro-Arg-H, BOC-D-Phe-Pro-Arg-H, etc.

IT 139976-34-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and redn. of, in solid phase

synthesis of peptide aldehydes)

RN 139976-34-4 HCAPLUS

CN Carbamic acid, [(1S)-4-[[imino(nitroamino)methyl]amino]-1[(methoxymethylamino)carbonyl]butyl]-, 1,1-dimethylethyl ester (9CI) (CA
INDEX NAME)

ANSWER 31 OF 52 HCAPLUS COPYRIGHT 1999 ACS

AN 1994:218523 HCAPLUS

DN 120:218523

TΙ Synthesis of azapeptides by the Fmoc/tert-butyl/polyamide technique

Quibell, Martin; Turnell, William G.; Johnson, Tony ΑU

CS

MRC Lab. Mol. Biol., Cambridge, CB2 2QH, UK J. Chem. Soc., Perkin Trans. 1 (1993), (22), 2843-9 SO CODEN: JCPRB4; ISSN: 0300-922X

DTJournal

LA English

OS CASREACT 120:218523

A new synthesis of azapeptides for use in the study of a proteolytic ΆB enzyme assocd. with Alzheimer's disease is described. The method utilizes

fluoren-9-ylmethoxycarbonyl (Fmoc) amino acid carbazates and hydrazides

in

the Fmoc/tert-butyl/polyamide technique. The prepn. of these compds. is presented. Reaction of Fmoc-amino acid hydrazides with an appropriate aldehyde, followed by redn., gave fully protected amino acid carbazate dipeptide synthons. These derivs, were used to prep. aza amino acid peptide analogs by reaction with a resin-bound amino group, activated with bis-2,4-dinitrophenyl carbonate in the presence of a base. With this activation of the amino group, hydantoins are formed in a major side reaction, but the cyclization could be virtually eliminated by omission of the base from the activation procedure. Upon final trifluoroacetic acid-mediated cleavage of the azapeptide, trifluoroacetylation of the N-terminal serine residue was obsd.

154130-34-4P 154130-35-5P 154130-36-6P ΙT

154130-37-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (intermediate in prepn. of protected azadipeptide building block for solid-phase peptide synthesis)

154130-34-4 HCAPLUS RN

Hydrazinecarboxylic acid, CN

2-[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3methyl-1-oxobutyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN154130-35-5 HCAPLUS

CN Hydrazinecarboxylic acid, 2-[6-[[(1,1-dimethylethoxy)carbonyl]amino]-2-Searched by John Dantzman

ANSWER 30 OF 52 HCAPLUS COPYRIGHT 1999 ACS

ΑN 1994:580233 HCAPLUS

DN 121:180233

ΤI Reagents for automated synthesis of peptide aldehydes.

IN Webb, Thomas R.

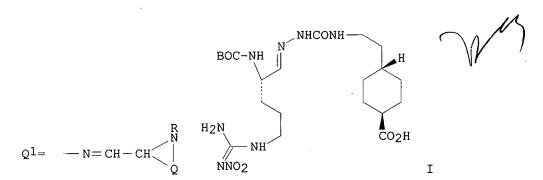
PACorvas, Inc., USA

U.S., 18 pp. CODEN: USXXAM SO

DTPatent

English LA

FAN.	CNT 2						
	PATENT NO.		DATE	APPLICATION NO.	DATE		
ΡI	US 5283293	Α	19940201	US 1990-627753	19901214		
	US 5367072	Α	19941122	US 1991-807474	19911213		
PRAI	US 1990-627753	19901	214				
OS	MARPAT 121:180233						
GI							



XCOANHCONHZ [A = hydrocarbyl; Z = NHR, N:CHCHR1NHR, Q1; R = protecting AB group; R1 = H, (substituted) alkyl, cycloalkyl, aryl, aralkyl; Q = (substituted) alkylene; X = NHSp, OSp, CH2Sp; Sp = insol. resin support], were prepd. Thus, nitroarginal semicarbazone deriv I was prepd.

and coupled to methylbenzhydrylamine resin; the resin was used in solid phase prepn. of BOC-D-Leu-Pro-Arginal, etc.

ΙT 71413-14-4P 139976-26-4P 139976-27-5P

139976-28-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as intermediate for linker group for solid phase peptide aldehyde synthesis)

RN 71413-14-4 HCAPLUS

CN Carbamic acid, [(1S)-1-formyl-4-[[imino(nitroamino)methyl]amino]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

```
ANSWER 28 OF 52 HCAPLUS COPYRIGHT 1999 ACS
ΑN
     1995:984982 HCAPLUS
DN
     124:176894
ΤI
     Solid-phase synthesis of a fucosylated glycopeptide of human factor IX
    with a fucose-.alpha.-(1.fwdarw.0)-serine linkage
     Peters, Stefan; Lowary, Todd I.; Hindsgaul, Ole; Meldal, Morten; Bock,
ΑU
     Department Chemistry, Carlsberg Laboratory, Copenhagen Valby, DK-2500,
CS
     Den.
     J. Chem. Soc., Perkin Trans. 1 (1995), (23), 3017-22
SO
    CODEN: JCPRB4; ISSN: 0300-922X
DT
    Journal
LA
     English
    The chem. synthesis of protected glycopeptide
AΒ
Ac-Pro-Cys (Acm) -Leu-Asn-Gly-
    Gly-Ser(Ac3-.alpha.-L-Fuc)-Cys(Acm)-Lys-Asp-Asp-NH2 (I; Acm =
    acetamidomethyl), with L-fucose directly linked to the hydroxy group of
    L-serine is reported. Two building blocks contg. a protected and an
    unprotected fucose residue .alpha.-glycosidically linked to Fmoc-Ser-OH
    (Fmoc = 9-fluorenylmethoxycarbonyl) were prepd. and used in the synthesis
    of I. Both building blocks were completely compatible with the std.
     Fmoc-based solid-phase peptide synthesis protocol and furthermore that OH
    protection of the carbohydrate is necessary only during the final acid
    treatment for cleavage of the glycopeptide from the resin.
IT
    173777-50-9P
    RL: BYP (Byproduct); PREP (Preparation)
        (solid-phase synthesis of a fucosylated
       glycopeptide of human factor IX with a fucose-serine linkage)
RN
     173777-50-9 HCAPLUS
     L-.alpha.-Asparagine,
CN
[S-[(acetylamino)methyl]-N-(1-acetyl-L-prolyl)-L-cysteinyl]-L-leucyl]-L-
     .alpha.-aspartyl]qlycyl]qlycyl]-O-(6-deoxy-.alpha.-L-galactopyranosyl)-L-
     seryl]-L-cysteinyl]-L-lysyl]-L-.alpha.-aspartyl]-, 4''-hydrazide (9CI)
     (CA INDEX NAME)
```

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=> d bib abs hitstr 26
```

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ANSWER 26 OF 52 HCAPLUS COPYRIGHT 1999 ACS
L23
AN
     1996:190883 HCAPLUS
DN
     124:233161
     Preparation of resin supports for use in solid phase synthesis
TΙ
     of peptide hydrazides.
     Coughlin, Daniel J.
IN
PA
     Cytogen Corp., USA
SO
     PCT Int. Appl., 21 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                                 APPLICATION NO.
                         ____
                                _----
                                                 _____
                                19951221
PΙ
     WO 9534314
                         A1
                                                 WO 1995-US7462
                                                                    19950613
          W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO,
          RU, SD, SG, SI, SK, TJ, TM, TT, UA, UZ, VN
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
              LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
              SN, TD, TG
                                19960105
                                                AU 1995-29021
                                                                     19950613
     AU 9529021
                          Α1
                         19940614
PRAI US 1994-259775
     WO 1995-US7462
                         19950613
     MARPAT 124:233161
GI
```

$$R^4$$
 R^6
 R^1 HNNR 2 CO $_2$ CHR 3 R^5 R^7 I

AB Title compds. (I; P = solid phase polymer support; Y = Ph, alkyl, aryl, akoxy, aryloxy, alkylamino, arylamino, alkylthio, arylthio; R1, R2 = H, alkyl; R3 = H, alkyl, aryl, nitroaryl; R4 = OR8, NMe2; R8 = alkyl; R5-R7

H, OMe, NMe2, alkyl, aryl), were prepd. Thus, sasrin was derivatized with

Ph chloroformate and hydrazine and the resulting hydrazide sasrin resin was used to prep. branched and linear peptide hydrazides.

IT 174800-73-8DP, sasrin resin-bound 174800-74-9DP, sasrin resin-bound 174800-75-0DP, sasrin resin-bound 174800-76-1DP, sasrin resin-bound 174800-77-2DP, sasrin resin-bound 174800-82-9DP, resin-bound

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. of **resin** supports for use in **solid**Searched by John Dantzman 308-4488

```
L23
     ANSWER 25 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN
     1996:237461 HCAPLUS
DN
     124:290274
ΤI
     Solid phase synthesis of diketopiperazines (cyclodipeptides).
     Campbell, David; Gallop, Mark A.; Gordon, Eric M.; Look, Gary C.; Patel,
IN
     Dinesh; Szardenings, Anna Katrin
PA
     Affymax Technologies N.V., Neth.
SO
     PCT Int. Appl., 100 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 5
     PATENT NO.
                         KIND
                                DATE
                                                APPLICATION NO.
                                                                    DATE
                         ____
                                _____
                                19960104
                                                WO 1995-US7964
                                                                    19950623
ΡI
     WO 9600391
                         A1
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              TM, TT
          RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
              LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
              SN, TD, TG
     WO 9535278
                                19951228
                                                 WO 1995-US7878
                                                                    19950622
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                       NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
              LU, MC,
              SN, TD, TG
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                                                                    19950623
     AU 9528711
                          Α1
PRAI US 1994-265578
                         19940623
     US 1995-393318
                         19950222
     WO 1995-US7878
                         19950622
     US 1994-264136
                         19940622
     US 1994-354309
                         19941212
     WO 1995-US7964
                        19950623
AΒ
     A library of diverse diketopiperazines comprising a plurality of solid
     supports having a plurality of surface-bound diketopiperazines, wherein
     the diketopiperazines bound to each of the solid supports are
     substantially homogeneous and have a compn. substantially different from
     diketopiperazines bound to selected other supports, are claimed.
     TentaGel S resin functionalized with Knorr linker was coupled
     with FMOC-Glu(OMe)-OH using BOP/DIEA in DMF followed by deprotection,
     coupling with FMOC-Gly, and deprotection. Heating the resin
     -bound dipeptide in MeOH/Et3N gave resin-bound diketopiperazine
     product, which was treated with TFA/H2O to give 61% cyclo(Gln-Gly).
ΙT
     175452-67-2P
     RL: SPN (Synthetic preparation); PREP (Preparation)
         (solid phase synthesis of
         diketopiperazines)
     175452-67-2 HCAPLUS
RN
CN
     2-Piperazinepropanamide, N-hydroxy-1-(3-methylbutyl)-3,6-dioxo-5-
                      Searched by John Dantzman
```

ANSWER 23 OF 52 HCAPLUS COPYRIGHT 1999 ACS L23 AN 1996:632144 HCAPLUS DN 125:276589 TΙ Synthesis of hydroxamic acid derivatives using solid supports functionalized with (protected) hydroxylamine. Floyd, Christopher David; Lewis, Christopher Norman IN PA British Biotech Pharmaceuticals Limited, UK SO PCT Int. Appl., 47 pp. CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE 19960829 PΙ WO 9626223 A1 WO 1996-GB428 19960226 W: JP, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE A1 EP 1996-903152 EP 811019 19971210 19960226 EP 811019 В1 19990407 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE

JP 11500620 T2 19990119 JP 1996-525514 19960226 AT 178618 E 19990415 AT 1996-903152 19960226 US 5932695 A 19990803 US 1997-809499 19970324

US 5932695 A 19990803 US 1997-809499 C PRAI GB 1995-3749 19950224 WO 1996-GB428 19960226

GI

$$H_2NO$$
 R I

AB Solid phase reaction components substantially insol. in aq. or org. reaction media of the formulas P1NHOR or RHNOP2 (P1, P2 = H, protecting group; R = solid substrate) wherein the bond to the substrate is cleavable

under acid conditions or by photolysis, are claimed. Such components are useful in the solid phase synthesis of, for example, compds. which are matrix metalloproteinase inhibitors. Thus, supported hydroxylamine I; R

copoly(styrene-1% divinylbenzene), prepd. from Wang **resin** by treatment with N-hydroxyphthalimide/Ph3P/DEAD followed by hydrazinolysis, was used in solid phase synthesis of Z-Pro-Leu-Ala-NHOH.

1T 174857-80-8P 174857-88-6P 182297-48-9P 182297-49-0P 182297-50-3P 182297-51-4P 182297-52-5P 182297-53-6P 182297-54-7P 182297-55-8P 182297-56-9P 182297-57-0P

```
L23
     ANSWER 21 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN
     1996:668769 HCAPLUS
DN
     126:31626
TΙ
     A method for the synthesis of hydroxamic acids on solid phase
ΑU
     Floyd, Christopher D.; Lewis, Christopher N.; Patel, Sanjay R.;
Whittaker,
     Mark
CS
     British Biotech Pharm. Ltd., Oxford, OX4 5LY, UK
SO
     Tetrahedron Lett. (1996), 37(44), 8045-8048
     CODEN: TELEAY; ISSN: 0040-4039
PB
     Elsevier
DT
     Journal
LA
     English
AB
     Wang resin was modified using a Mitsunobu reaction to give
     resin bound O-hydroxylamine. This resin was acylated
     and the adduct cleaved from the resin by TFA to afford
     hydroxamic acids. A series of tripeptides and sulfonamido hydroxamic
     acids which act as inhibitors of metalloproteinases have been prepd.
     Resins more sensitive to acid cleavage can also be modified to
     simplify the work-up procedure.
    123984-00-9P 184775-22-2P 184775-23-3P
ΙT
     184775-24-4P 184775-25-5P 184775-26-6P
     184775-27-7P 184775-28-8P 184775-29-9P
     184775-30-2P 184775-31-3P 184775-32-4P
     184775-33-5P 184775-34-6P 184775-35-7P
     184775-36-8P 184775-37-9P 184775-38-0P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (solid phase synthesis of peptidyl
        hydroxamic acids)
RN
     123984-00-9 HCAPLUS
CN
     L-Alaninamide, 1-[(phenylmethoxy)carbonyl]-L-prolyl-L-leucyl-N-hydroxy-
            (CA INDEX NAME)
```

Absolute stereochemistry.

RN 184775-22-2 HCAPLUS

CN L-Norleucinamide,

1-[(phenylmethoxy)carbonyl]-L-prolyl-(.alpha.S)-.alpha.aminobenzenebutanoyl-N-hydroxy- (9CI) (CA INDEX NAME)

Searched by John Dantzman

308-4488

ANSWER 18 OF 52 HCAPLUS COPYRIGHT 1999 ACS AN 1997:528751 HCAPLUS DN 127:176699 ΤI Solid-Phase Synthesis of Artificial .beta.-Sheets AU Holmes, Darren L.; Smith, Eric M.; Nowick, James S. Department of Chemistry, University of California, Irvine, CA, CS 92697-2025, USA SO J. Am. Chem. Soc. (1997), 119(33), 7665-7669 CODEN: JACSAT; ISSN: 0002-7863 PB American Chemical Society DTJournal English LA GI

AB The solid-phase syntheses of artificial .beta.-sheets, e.g. I, which \min

the structure and hydrogen-bonding patterns of protein .beta.-sheets is described. In these compds., mol. templates induce .beta.-sheet structures in attached peptide strands. The templates consist of di- and triurea derivs., which hold peptide and peptidomimetic strands in proximity, and .beta.-strand mimics, which hydrogen bond to the peptide strands. The syntheses involve constructing the "lower" peptide strand

I

on

Merrifield resin, attaching the di- or triamine portions of the di- or triurea templates, connecting the "upper" peptide and peptidomimetic strands, and cleaving the resulting artificial .beta.-sheets from the resin. The artificial .beta.-sheets were prepd. in 8-13 steps from leucine Merrifield in 33-67% overall yield.

IT 3619-17-8P, Isobutyric hydrazide 194025-94-0P 194025-95-1P 194025-96-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (solid-phase synthesis of artificial

L23 ANSWER 17 OF 52 HCAPLUS COPYRIGHT 1999 ACS

AN 1997:684665 HCAPLUS

DN 127:318531

TIA New and Efficient Solid Phase Synthesis of Hydroxamic Acids

Ngu, Khehyong; Patel, Dinesh V. ΑU

CS

Versicor Inc., Fremont, CA, 94555, USA J. Org. Chem. (1997), 62(21), 7088-7089 CODEN: JOCEAH; ISSN: 0022-3263 SO

PΒ American Chemical Society

DT Journal

LA English

CASREACT 127:318531 OS

AΒ A new method for the solid phase synthesis (SPS) of hydroxamic acids proceeding through the intermediacy of N-tethered-O-protected alkoxyamine resin is described. The linker group, besides being an acid cleavable site for attachment of these mols. on solid support, also

serves

as a suitable nitrogen protecting group for the hydroxamate

functionality.

The current methodol. is strategically well suited for combinatorial synthesis of diverse hydroxamic acid based metalloenzyme inhibitors, as exemplified by the first SPS of CGS 27023A, a recently described orally active matrix metallo protease (MMP) inhibitor.

17698-11-2P 56439-40-8P 192570-31-3P ΙT

197304-28-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (solid phase synthesis of hydroxamic acids)

RN 17698-11-2 HCAPLUS

Benzenepropanamide, N-hydroxy- (9CI) (CA INDEX NAME) CN

$$^{\rm O}_{||}$$
 HO-NH-C-CH₂-CH₂-Ph

RN 56439-40-8 HCAPLUS

Butanediamide, N-hydroxy-N'-(phenylmethyl)- (9CI) (CA INDEX NAME) CN

RN 192570-31-3 HCAPLUS

CN Butanamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl](3pyridinylmethyl)amino]-3-methyl-, (2S)- (9CI) (CA INDEX NAME)

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=> d bib abs hitstr 13
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ANSWER 13 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN
     1998:426680 HCAPLUS
DN
     129:161529
ΤI
     Solid phase synthesis of 1-aminohydantoin libraries
    Wilson, Lawrence J.; Li, Min; Portlock, David E.
ΑU
CS
     Procter and Gamble Pharmaceuticals, Health Care Research Center, Mason,
     OH, 45040, USA
SO
     Tetrahedron Lett. (1998), 39(29), 5135-5138
     CODEN: TELEAY; ISSN: 0040-4039
PB
     Elsevier Science Ltd.
DT
     Journal
LΑ
    English
AB
    The solid support synthesis of a series of 1-aminohydantoins based on a
    diverse set of hydrazino amino acids, aldehydes, and amines is described.
    The method involves the construction of resin attached hydrazino
     acid precursors, followed by subsequent derivatization, and then
     cyclizative cleavage off the resin. Overall yields vary per
     example between 15 and 60%, and the samples are suitable for biol.
     evaluations without further purifn.
IT
    870-46-2, tert-Butoxycarbonylhydrazine 14381-08-9
    54600-94-1 211107-24-3 211107-25-4
    211107-29-8
    RL: RCT (Reactant)
        (solid phase synthesis of
        1-aminohydantoin libraries)
RN
     870-46-2 HCAPLUS
```

Hydrazinecarboxylic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

CN

RN 14381-08-9 HCAPLUS
CN Hydrazinecarboxylic acid, 2-(1-carboxy-2-phenylethyl)-, 1-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

RN 54600-94-1 HCAPLUS
CN Hydrazinecarboxylic acid, 2-(1-carboxyethyl)-, 1-(1,1-dimethylethyl)
ester
(9CI) (CA INDEX NAME)

```
L23
     ANSWER 12 OF 52 HCAPLUS COPYRIGHT 1999 ACS
ΑN
     1998:459963 HCAPLUS
DN
     129:161827
ΤI
     Solid-phase synthesis of hydroxamic acids
ΑU
     Dankwardt, Sharon M.
     Inflammatory Disease Unit, Parallel Synthesis Group, Roche Bioscience,
CS
     Palo Alto, CA, 94304, USA
     Synlett (1998), (7), 761
CODEN: SYNLES; ISSN: 0936-5214
SO
     Georg Thieme Verlag
PΒ
DT
     Journal
     English
LA
AΒ
     The solid-phase synthesis of amino hydroxamic acids is presented.
     Carboxy-linked, polymer-supported N-carbobenzoxy-protected amino acids
     were displaced from the resin with aq. NH2OH to provide the
     corresponding hydroxamic acids.
IT
     66179-55-3P 73048-81-4P 76960-28-6P
     88144-07-4P 107145-27-7P 160056-97-3P
     211232-25-6P 211232-26-7P 211232-27-8P
     211232-28-9P 211232-29-0P 211232-30-3P
     211232-31-4P 211232-32-5P 211232-33-6P
     211232-34-7P 211232-35-8P 211232-36-9P
     211232-37-0P 211232-38-1P 211232-39-2P
     211232-40-5P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (solid-phase synthesis of amino
        hydroxamic acids)
RN
     66179-55-3 HCAPLUS
CN
     Carbamic acid, [(1S)-1-[(hydroxyamino)carbonyl]-3-methylbutyl]-,
     phenylmethyl ester (9CI) (CA INDEX NAME)
```

Absolute stereochemistry.

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ANSWER 11 OF 52 HCAPLUS COPYRIGHT 1999 ACS
L23
ΑN
      1998:485029 HCAPLUS
DN
      129:122459
ΤI
      Solid phase synthesis of aldehydes, ketones, oximes, amines and
hydroxamic
      acids
      Salvino, Joseph M.; Morton, George C.; Mason, Helen J.; Labaudiniere,
IN
      Richard F.
PΑ
     Rhone-Poulenc Rorer Pharmaceuticals Inc., USA
SO
     PCT Int. Appl., 98 pp.
     CODEN: PIXXD2
DT
      Patent
LA
     English
FAN.CNT 2
                                                  APPLICATION NO.
      PATENT NO.
                         KIND
                                 DATE
                                                                      DATE
                                 -----
PΙ
     WO 9829376
                         A1
                                19980709
                                                  WO 1997-US23920 19971217
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
               FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
               GA, GN, ML, MR, NE, SN, TD, TG
     AU 9857199
                                19980731
                                                  AU 1998-57199
                                                                      19971217
                          A1
                                 19991006
                                                  EP 1997-953458
     EP 946478
                          Α1
                                                                      19971217
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, FI, RO
                                 19980914
      ZA 9711453
                                                  ZA 1997-11453
                                                                      19971219
                          Α
                                                  WO 1998-US26512 19981214
     WO 9931491
                                 19990624
                           Α1
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, DK,
               EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,
               LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
               RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ,
               VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
               FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
               CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9925569
                          A1 19990705
                                                AU 1999-25569
                                                                      19981214
     NO 9902896
                                 19990813
                                                  NO 1999-2896
                                                                      19990614
                          Α
PRAI US 1996-32453
                          19961219
     US 1996-33881
                         19961224
     US 1996-PV32453
                         19961219
     US 1996-PV33881
                         19961224
     WO 1997-US23920 19971217
     US 1998-90558
                         19980624
     US 1998-90563
                         19980624
     US 1998-PV90558 19980624
     US 1998-PV90563 19980624
     WO 1998-US26512 19981214
     CASREACT 129:122459
OS
     Title compds., e.g. R1COR2 (R1, R2 = aryl, aliphatyl), were prepd. by
AΒ
                       Searched by John Dantzman
                                                          308-4488
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